

WHAT IS CLAIMED IS:

1. An injection apparatus comprising:

a screw drive shaft which is connected to an end portion of a screw and rotates integrally with the  
5 screw;

a motor which generates torque to rotate the screw drive shaft;

a rotating member situated on an extension of an axis of the screw drive shaft;

10 a power transmission mechanism which transmits the rotation of the motor to the rotating member; and

15 a speed reducer which is located between the rotating member and the screw drive shaft, reduces the speed of rotation of the rotating member, and transmits the rotation of the rotating member to the screw drive shaft.

2. An injection apparatus according to claim 1, wherein the speed reducer has an input shaft fitted with the rotating member and an output shaft connected to the screw drive shaft, the input and output shafts being situated on the extension of the axis of the screw drive shaft.

20 3. An injection apparatus according to claim 2, wherein the speed reducer is formed of a planetary gear mechanism or a traction drive mechanism.

25 4. An injection apparatus according to claim 1, wherein the power transmission mechanism has a first

pulley on an output shaft of the motor, a second pulley for use as the rotating member on the input shaft of the speed reducer, and a belt passed around the first and second pulleys.